INTERNATIONAL SEARCH REPORT

Internation pplication No PCT/GB 03/04529

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E02D27/42 E02D27/52 E04

E04H12/22

F03D1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

X Y Y	CH 363 463 A (ANDERSSON GUSTAV 31 July 1962 (1962-07-31) page 1, line 35 -page 2, line figures 1,2 CH 241 601 A (DESMEULES FRERES 31 March 1946 (1946-03-31) page 1, line 31 -page 1, line claims 2,4; figures 1-3 US 4 406 094 A (HEMPEL JOACHIM 27 September 1983 (1983-09-27) figure 1	5) 44	1-6, 10-14 7-9,15 7,9
	31 March 1946 (1946-03-31) page 1, line 31 -page 1, line claims 2,4; figures 1-3 US 4 406 094 A (HEMPEL JOACHIM 27 September 1983 (1983-09-27)	44	,
Y	27 September 1983 (1983-09-27)	ET AL)	7 0 15
			7,8,15
A	DE 597 543 C (OTTO WEINLIG DR; TOUSSAINT) 26 May 1934 (1934-0) figure 1	HEINRICH 5-26)	1,7,9
		-/ Y Patent family members are listed	in oppose
	documents are listed in the continuation of box C.	Patent family members are listed	m annex.
"A" document of considere "E" earlier document which is contation or "O" document other mea	which may throw doubts on priority claim(s) or cited to establish the publication date of another or other special reason (as specified) treferring to an oral disclosure, use, exhibition or	 'T' later document published after the interpriority date and not in conflict with cited to understand the principle or the invention 'X' document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious the art. '&' document member of the same patent 	the application but early underlying the claimed invention to considered to cument is taken alone claimed invention ventive step when the ore other such docuus to a person skilled
Date of the actu	tual completion of the international search	Date of mailing of the international sea	arch report
4 F	February 2004	11/02/2004	
Name and mail	illing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hendrickx, X	

INTERNATIONAL SEARCH REPORT

PCT/GB 03/04529

C.(Continua	ition) DOCUMENTS CONSIDERED TO BE RELEVANT	1017 05 037 04323		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	DE 196 07 972 C (STRAEB GMBH & CO GEB) 15 January 1998 (1998-01-15) figures 1,13,15,30	1-15		
A	US 6 425 708 B1 (SIEGFRIEDSEN SONKE) 30 July 2002 (2002-07-30) claim 1; figures 1-3	16,22		
Α	US 3 716 994 A (POGONOWSKI I) 20 February 1973 (1973-02-20) figures 1-3	1,16,22		
A	US 4 720 214 A (BRASTED LEE K ET AL) 19 January 1988 (1988-01-19) figures 1,5			
		,		

INTERNATIONAL SEARCH REPORT

Internation pplication No PCT/GB 03/04529

Patent document cited in search report		Publication date		Patent family member(s)	i	Publication date
CH 363463	Α	31-07-1962	NONE			
CH 241601	Α	31-03-1946	NONE		74	
US 4406094	- -	27-09-1983	DE FR NL SE SE	3007442 2477198 8100231 442310 8100608	A1 A B	03-09-1983 04-09-1983 01-10-1983 16-12-1983 29-08-1983
DE 597543	С	26-05-1934	NONE			
DE 19607972	С	15-01-1998	DE	19607972	C1	15-01-1998
US 6425708	B1	30-07-2002	DE AT AU CN WO DE DK EP ES JP	19860211 222670 3030800 1326603 0039903 59902424 1145397 1145397 2178498 2002534942	T A T A1 D1 T3 A1 T3	23-11-2000 15-09-2002 31-07-2000 12-12-2001 06-07-2000 26-09-2002 09-12-2002 17-10-2001 16-12-2002
US 3716994	Α	20-02-1973	NONE			
US 4720214	Α	19-01-1988	GB NO	2192923 872128		27-01-1988 23-11-1987